



Control Your Video

**VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES**

HDMI 4K UNCOMPRESSED ENCODER/DECODER OVER CATx



Model #: HDM-C6IP4K-SET

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Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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SECTION I: GETTING STARTED

I.1 IMPORTANT SAFE GUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
- Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- Repair or attempted repair by anyone not authorized by us.
- Any damage of the product due to shipment.
- Removal or installation of the product.
- External causes to the product, such as electric power fluctuation or failure.
- Use of supplies or parts not meeting our specifications.
- Normal wear and tear.
- Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

I.2 SAFETY INSTRUCTIONS

The Avenview HDM-C6IP4K-SET, HDMI IP Matrix Decoder/Encoder has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the HDM-C6IP4K-SET should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- ⚠ keep the module away from liquids.
- ⚠ Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ Have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

Warning symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT</p>
	<p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIRONMENT.</p>
	<p>⚠ WARNING</p> <p>Read & understand user guide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p>



2. INTRODUCTION

The Avenview HDM-C6IP4K-SET, HDMI IP Matrix Decoder/Encoder enables the extension, switching and composition of real-time, uncompressed Ultra-HD AV signal with zero frame latency over 10 Gigabit Ethernet Switch, it receives the encoded IP signal through LAN port and decodes video/audio signal out through HDMI interface, it also supports stereo de-embedding and streaming resolutions up to 3840 x 2160@30Hz.

FEATURES:

- Uncompressed HDMI digital video signal up to 3840 x 2160@30Hz and 3D support;
- Supports 4K signal at 6 GbE and 1080P signal at 1.485GbE
- Lower end-to-end latency at 30ms;
- Supports point to point transmission, distance up to 100m with 4K signal;
- Supports point to multiple, multiple to multiple mode via 10GbE Ethernet Switch;
- Instant and seamless switching between Non-HDCP and same timing sources;
- Independent analog audio input and output at 2-channels, 24-bits@48KHz/channel;
- Supports Bi-directional IR;
- Supports Bi-directional RS232 With 10/100/GbE auto sensing port, for PC control and device upgrades;
- Control Software;

Other features include:

Point to Point - (Direct Connection with CAT5/6) - 328ft

Point to Multi - point with CAT5/6 requires a POE Network Switch which supports port based, IGMP v2.0 or above protocol. for large application, we would recommend Dell Networking 5500 series, which use 2 HDMI port or 2 SFP port to cascade.

Matrix Function – with CAT 5/6 cable without any signal loss add multiple Sources to multiple encoders which links via LAN by cascading any POE Gigabit Ethernet switches up to 3 layer network, to the decoder connected to the HD Monitors at different locations on the Network. Transporting 4K or Full HD 1080p video and internally JPEG video compression adapts to available network bandwidth if needed while retaining vivid picture with PCM audio.

- NOTE: The QUALITY and TRANSMISSION of the video signals depends on the characteristics and quality of the UTP cables and Network Infrastructure . We recommend any Network Switches with 10GB POE IGMP v2.0 support . Tested and configured on the below models



2.1 PACKAGE CONTENTS

Before you start the installation of the HDMI Extender, please check the package contents.

1	HDM-C6IP4K-SET (HDM-C6IP4K-S) (HDM-C6IP4K-R)	X 2	
2	Power Brick (+ 12V DC 2A) + Power Cord	X2	
3	Right and Left Ear Rack Sets	X4	
5	Phoenix Connector (Male, 3.5 mm, 3 pins)	X 1	
6	User Guide	X 1	

2.2 BEFORE INSTALLATION

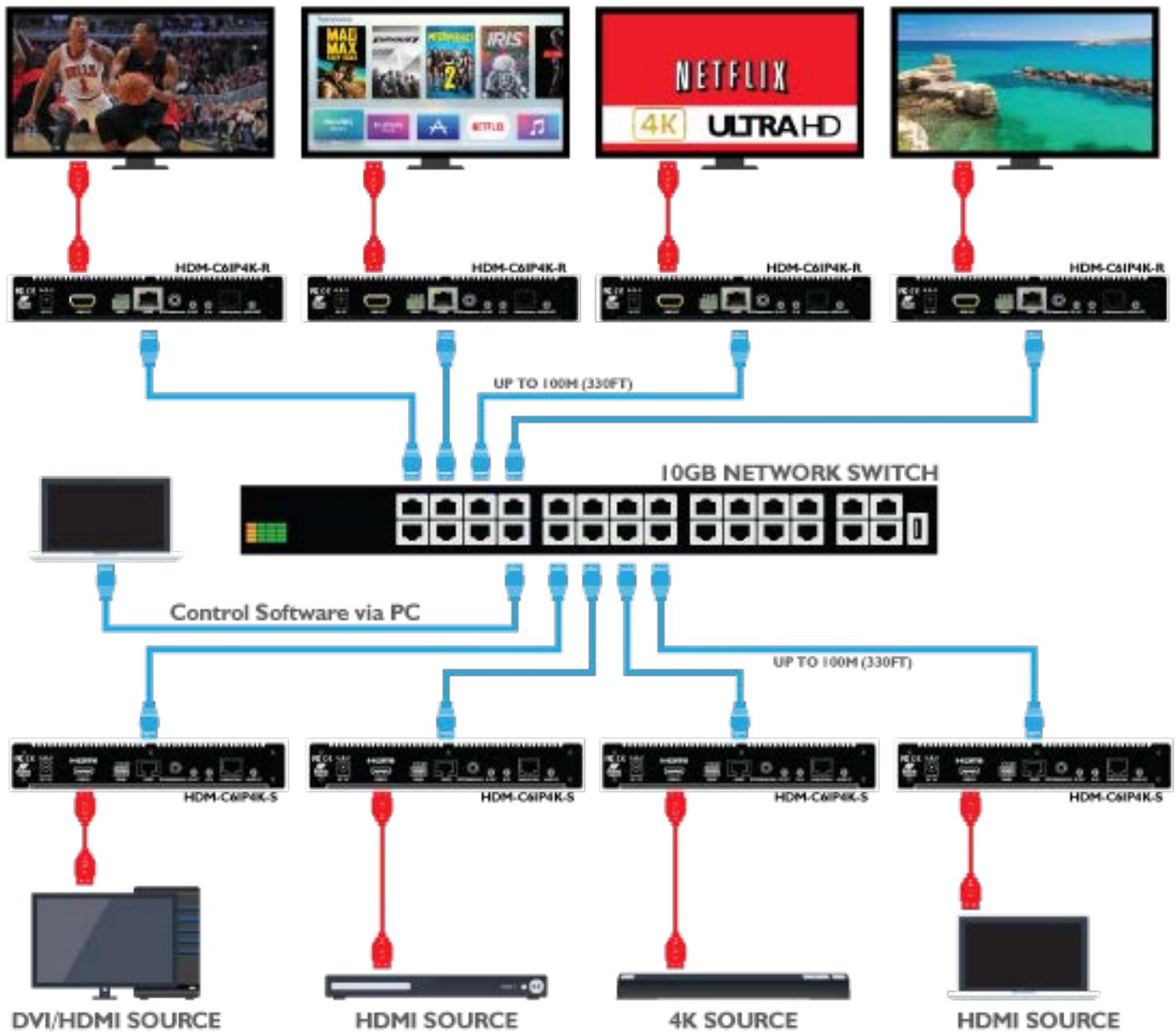
- put the product in a level and stable location. If the product falls, it may cause damage or malfunction to components within the casing.
- Do not place the product in temperatures under 0°C or over 50°C. High humidity may also cause the unit to malfunction.
- use the DC power adapter with correct specifications supplied with the unit. If the improper power supply is used, this may result in malfunction of the unit and may cause fire.
- Do not twist or pull by force the ends of the UTP cable. It will cause malfunction.



HDM-C6IP4K-SET

MULTI SOURCE TO MULTI DISPLAY
APPLICATION DIAGRAM

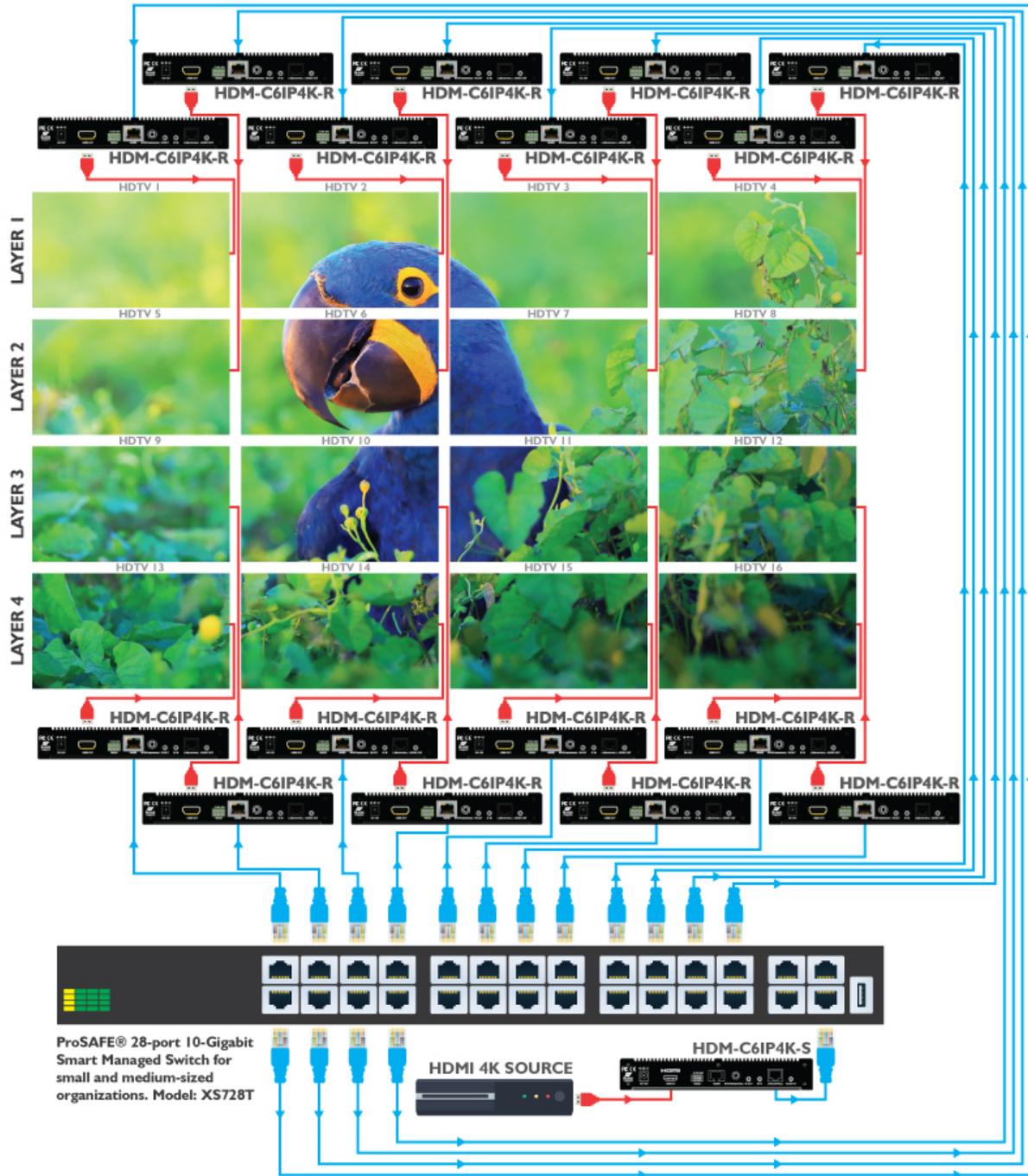
■ Input/Output ■ CAT 5e / CAT 6



HDM-C6IP4K-SET

HDMI 4K IP ENCODER AND DECODER OVER
CATX 10-GIGABIT WITH 4K VIDEO WALL FUNCTIONS

CABLE INDEX	
■	INPUT/OUTPUT
■	CAT5E/6



ProSAFE® 28-port 10-Gigabit
Smart Managed Switch for
small and medium-sized
organizations. Model: XS728T

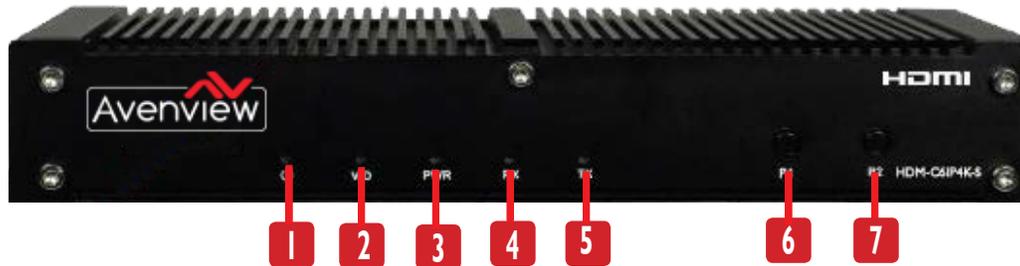


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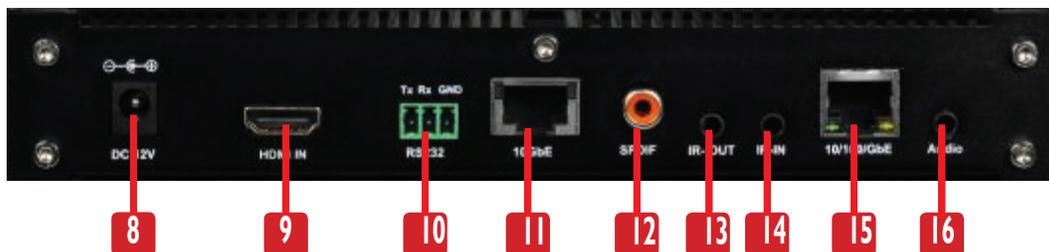
2.4 PANEL DESCRIPTION

2.4.1 FRONT PANEL (Sender/Encoder, HDM-C6IP4K-S)



1. Power LED: Indicates if unit is ON or OFF
2. Link LED (HDMI): Light ON indicates unit is receiving signal
3. Reserved LED: Reserved for manufacturer future use.
4. Link RX LED: Light ON indicates unit is on but not communicating, Slow Blinking : Indicates Sender/ Receiver communication
5. Status Indicator LED: Light ON indicates unit is on but not communicating, Fast Blinking : Indicates Sender/ Receiver communication
6. PI: Reserved for future use
7. Reserved: Reserved for future use

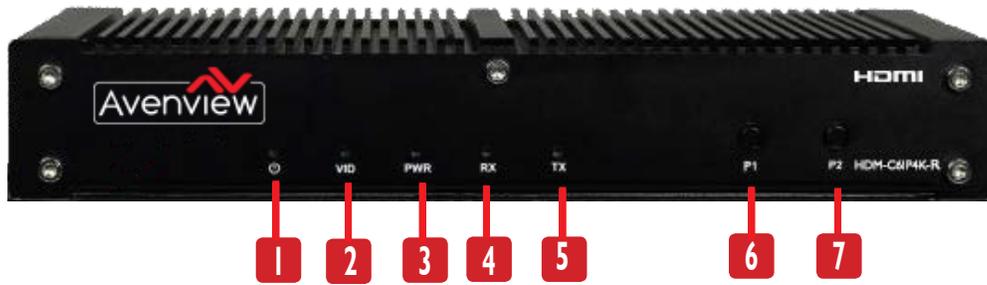
2.4.2 REAR PANEL (Sender/Encoder, HDM-C6IP4K-S)



8. Power Connector: Connects to a power supply, DC 12V 2A.	9. HDMI IN: Connects to HDMI Source.
10. RS 232: Device bi-directional communication	11. RJ-45 Port: Connect to Sender (Point to Point) Connect to 10 Gigabit switch
12. SPDIF: Reserved for future use.	13. IR Out : Connects to an IR transmitter
14. IR In: Connects to an IR receiver	15. RJ-45 LAN : Connects to network switch or PC for upgrading and software control
16. Audio Out: Connects to audio output device	



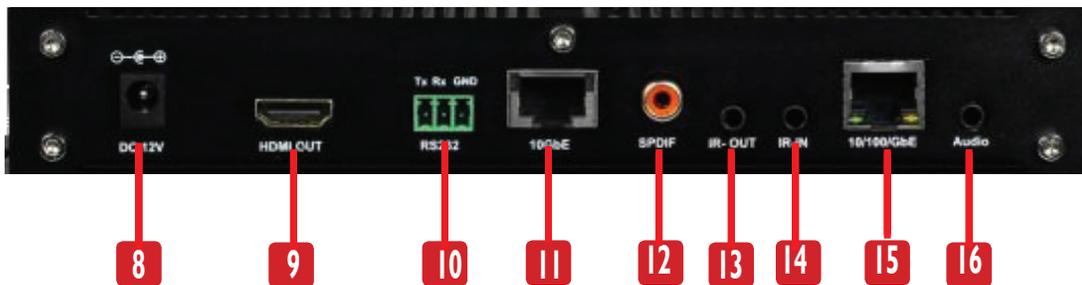
2.4.3 FRONT PANEL (Receiver/Decoder, HDM-C6IP4K-R)



1. Power LED: Indicates if unit is ON or OFF
2. Link LED (HDMI): Light ON indicates unit is receiving signal
3. Reserved LED: Reserved for manufacturer future use.
4. Link RX LED: Light ON indicates unit is on but not communicating, Slow Blinking : Indicates Receiver/Sender communication
5. Blinking : Indicates Receiver/Sender communication
6. P1: Press once to copy the connected HDMI display's EDID to all transmitters.*
7. Reserved: Reserved for future use

* If other display devices are not compatible with this display's EDID, these displays may not display picture properly. Try replacing the display devices or press P1 buttons at the receivers to overcome this problem.

2.4.4 FRONT PANEL (Receiver/Decoder, HDM-C6IP4K-R)



8. Power Connector: Connects to a power supply, DC 12V 2A.	9. HDMI Out: Connects to HDMI Display.
10. RS 232: Device bi-directional communication	11. RJ-45 Port: Connect to Sender (Point to Point) Connect to 10 Gigabit switch
12. SPDIF: Reserved for future use.	13. IR Out : Connects to an IR transmitter
14. IR In: Connects to an IR receiver	15. RJ-45 LAN : Connects to network switch or PC for upgrading and software control
16. Audio Out: Connects to audio output device	



3. INSTALLATION (HDM-C6IP4K-SET)

To setup Avenview HDM-C6IP4K-SET please follow these steps for connecting to a device:

1. Turn off all devices including monitors / TV.
2. Connect an HDMI source (such as a Blu-Ray Disc player or PC) to the Encoder HDM-C6IP4K-S.
3. Connect CAT5/6 from Encoder to Decoder at the LAN port.
4. Connect an HDMI out from HDM-C6IP4K-R decoder to a Display/Monitor.
5. Connect Audio out to Speakers or Amplifier.
6. Ensure all cable connections are secure and not loose.
7. Plug in 12V DC power (supplied)
8. Power on HDMI Source.
9. Power on the HDMI display.



Before Using PC Configurator

Before using PC configurator, you need to set a static IP address on your computer and configure your operating system firewall to allow this software to communicate on your network. This document takes software version BlueriverNT_Manager_V2_04 as an example to introduce on how to switch between transmitters and receivers.

Notes:

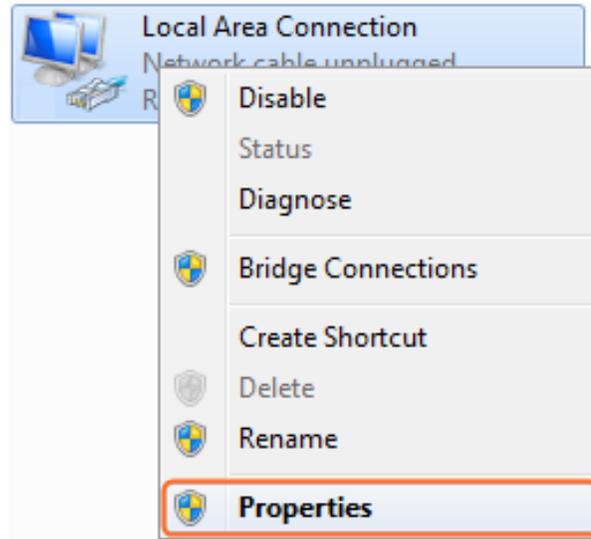
It's recommended that you install PC Configurator in a computer running Windows 7 or later.

Setting a Static IP on Your Computer

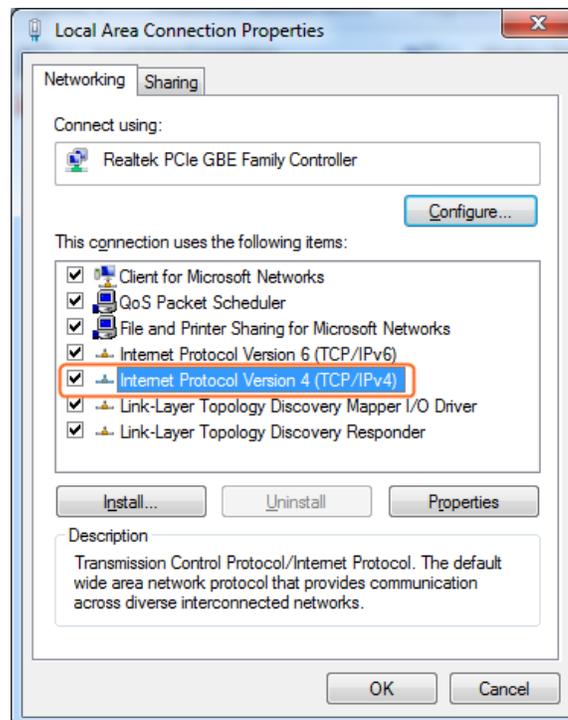
Before using PC Configurator, make sure that the IP address of your computer installed with this software, transmitter and receiver are in the same network segment. Otherwise, this software may not communicate with transmitter and receiver in the network. By default, the IP settings for transmitter and receiver are as follows: IP address is 169.254.X.X and subnet mask is 255.255.0.0. A computer running Windows 7 is used as an example to configure its static IP address of the same segment.



1. Click **Start**.
2. Choose **Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Settings**, right click **Local Area Connection**, and then choose **Properties**.

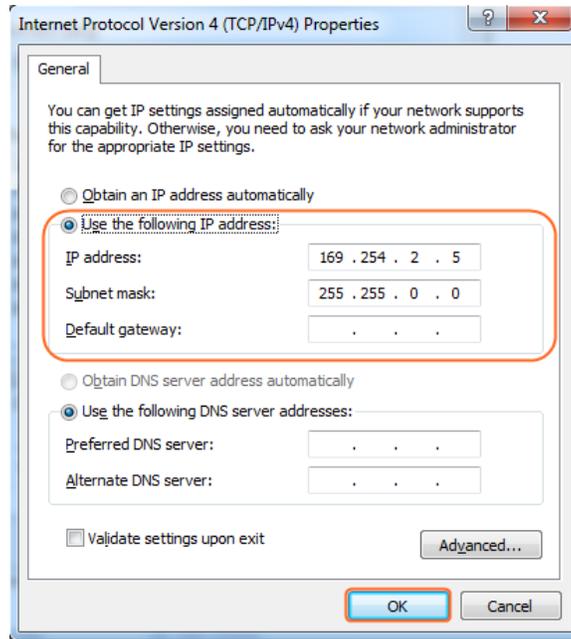


3. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



4. Select **Use the following IP address**. After configuring the settings in the following example, click **OK**.

- **IP address:** 169.254.2.5
- **Subnet mask:** 255.255.0.0



5. Click **OK**.

Configuring Your Operating System

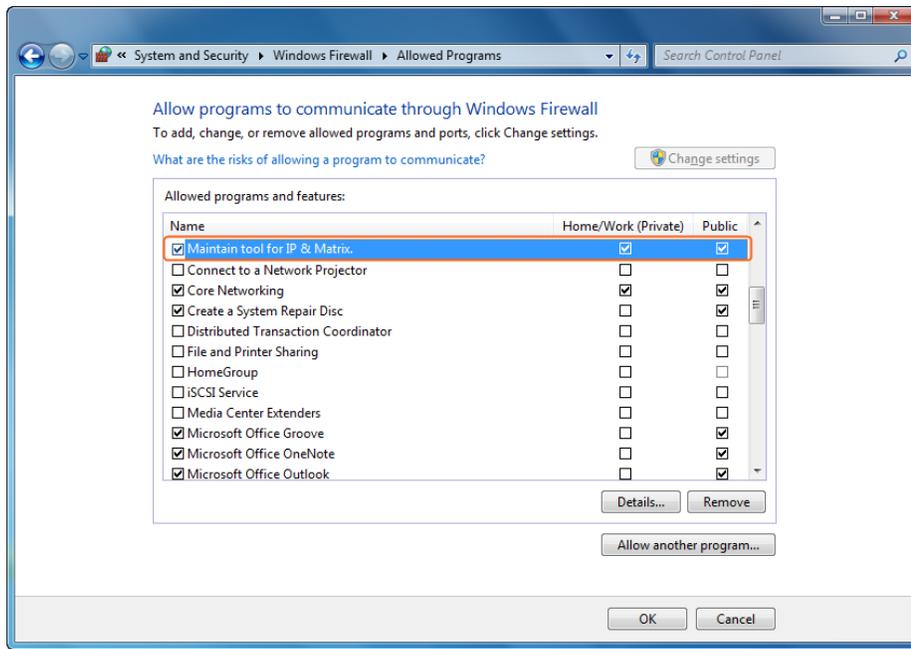
Firewall

Your operating system firewall may block some features of MaintainTool and prevent it from communicating with HDM-C6IP4K-S and HDM-C6IP4K-R. A computer running Windows 7 is used as an example to configure your operating system firewall through either of the following two approaches.

Method 1

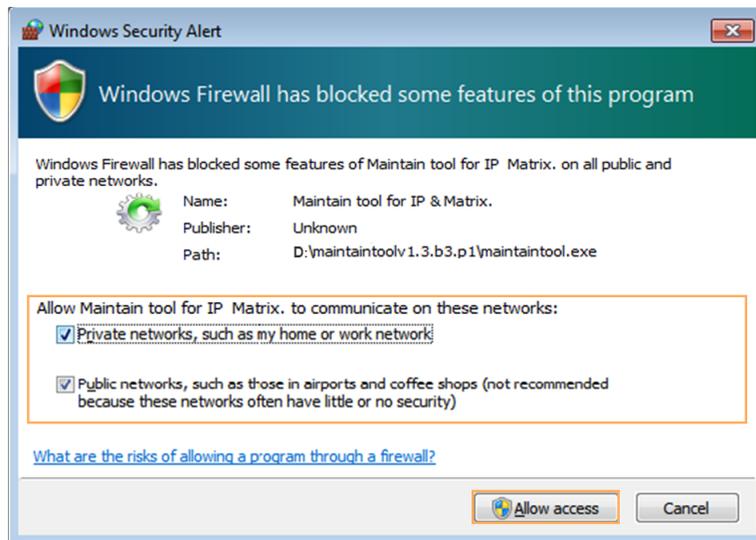
You can configure the firewall in the **Windows Firewall** panel on your computer, for example select both **Home/Work (Private)** and **Public** for **Maintain tool for IP & Matrix**. For more information, see "Troubleshooting" section.





Method 2

You can also configure the firewall in the **Windows Security Alert** window. When starting MaintainTool, the **Windows Security Alert** may display. If so, use the administrator privileges to select a network you allow this software to communicate on, for example select both private and public networks, and then click **Allow access**.



Starting PC Configurator

1. Set a static IP address on your computer and configure your operating system firewall by referring to "Before Using PC Configurator" on page 14.
2. Uncompress the RAR file of PC configurator.
3. Locate the **BlueriverNT_Manager_V2_04.exe**.
4. Double click it to start PC configurator.

Introduction to PC Configurator



GUI Element	Description	
Blueriver NT Manager v2.04	Indicates the name of this software.	
Connectivity	Ethernet	<ul style="list-style-type: none"> Click Connect to connect this software to a network of transmitters and receivers. Click Disconnect to disconnect this software from a network of transmitters and receivers.
	Rs232	Used for upgrading transmitters and receivers via RS232 ports in the rear panels.
Video Switching	Indicates a working place for switching between transmitters and receivers.	



GUI Element	Description
<p>Receivers</p>	 <p>All Displays 224.1.1.254</p> <ul style="list-style-type: none"> ● All Displays: indicates all the displays. ● 224.1.1.254: indicates the broadcast address. ● Click this area box to view all the transmitters and receivers in Video Switching area. ● Click and drag a transmitter's area box from Talkers area to this area box to make all the displays to play the pictures from the source device connected to this transmitter.
GUI Element	Description
	 <p>RX_001EC086288C 169.254.141.40 Ver: 1.84.1</p> <p>224.1.1.2 2880 X 1080 HDCP</p> <ul style="list-style-type: none"> ● RX: indicates it is a receiver. ● 001EC086288C: indicates the MAC address of this receiver, which can be found on the label of the rear panel. ● 169.254.141.40: indicates the IP address of this receiver. ● Ver: 1.84.1: indicates the current software version of this receiver. <p>If the information similar to that in the following list is displayed, it means this receiver is connected to a transmitter with a source device.</p> <ul style="list-style-type: none"> ● 224.1.1.2: indicates the multicast address. ● 2880 x 1080: indicates the resolution of the source video connected to the transmitter. ● HDCP: indicates the source video connected to the transmitter is encrypted.



GUI Element	Description
	<div data-bbox="626 287 776 443">  <p>RX_001EC08975F2 169.254.243.117 Ver:1.84.1</p> <p>224.1.1.1 1920 X 1080</p> </div> <div data-bbox="626 449 776 604">  <p>RX_001EC08975F2 169.254.243.117 Ver:1.84.1</p> <p>224.1.1.1 1920 X 1080</p> </div> <div data-bbox="626 611 776 766">  <p>Add Device (right-click)</p> </div> <p data-bbox="792 373 1255 527">If a receiver area box contains a display picture inside, it indicates this receiver is connected to a display device. Otherwise, no display device is connected.</p> <p data-bbox="792 684 1089 709">Reserved for future version.</p>
Talkers	<div data-bbox="626 856 776 1012">  <p>All Sources 224.1.1.253</p> </div> <div data-bbox="626 1241 776 1396">  <p>TX_001EC085B40F 169.254.16.180 Ver:1.84.1</p> <p>224.1.1.2 2880 X 1080 HDCP</p> </div> <ul data-bbox="792 800 1255 1493" style="list-style-type: none"> ● All Sources: indicates all the sources. ● 224.1.1.253: indicates the broadcast address. ● Click this area box to view all the transmitters and receivers in Video Switching area. ● TX: indicates it is a transmitter. ● 001EC085B40F: indicates the MAC address of this transmitter, which can be found on the label of the rear panel. ● 169.254.16.180: indicates the IP address of this transmitter. ● Ver: 1.84.1: indicates the current software version of this transmitter. <p data-bbox="792 1518 1255 1541">If the information similar to that in the</p>



GUI Element	Description
	<p>following list is displayed, it means this transmitter is connected to a receiver and a source device.</p> <ul style="list-style-type: none"> ● 224.1.1.2: indicates the multicast address. ● 2880 x 1080: indicates the resolution of the source video connected to this transmitter. ● HDCP: indicates the source video connected to this transmitter is encrypted.
	<p>Reserved for future version.</p>
	<p>If a transmitter area box contains a device inside, it indicates that it is connected to a source device. Otherwise, no source device is connected.</p>
GUI Element	Description
	<p>After clicking an area box, if orange devices appear, if their information such as multicast address, resolution and HDCP (optional) is the same, it means transmitters in them are linked to the receivers in them.</p>



Switching between Transmitters and Receivers

1. Connect the cables to all the devices.
2. Start PC configurator.
3. Select **Ethernet** and click **Connect**.



4. Perform some switching operations, for example:

- To play video from  on display , click RX and drag to 
- To Play video from  on display , click RX and drag to 
- To play video from  on all displays, click and drag  to 



5. SPECIFICATIONS

Item	Description	
Units	HDM-C6IP4K-S	HDM-C6IP4K-R
Unit Description	HDMI Transmitter/Encoder	HDMI Receiver/Decoder
Input Video Port	1 x HDMI IN	1 x LAN
Input Video Signal	HDMI 1.4	HDMI 1.4
Input Resolution	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 1920x1200@60, 3840 x 2160@30Hz	480p@60Hz~1920x1200@60Hz
Input Video Level	1.2 Vp-p	1.2 Vp-p
Output Video Ports	1 x LAN	1 x HDMI
Output Video Type	HDMI 1.4	HDMI 1.4
Output Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 1920x1200@60, 3840 x 2160@30Hz	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 1920x1200@60, 3840 x 2160@30Hz
Video Impedance	100 Ω	100 Ω
Input DDC Signal	5 V p-p (TTL)	5 V p-p (TTL)
Input Audio Ports	1 x HDMI IN, 1 x Audio IN	1 x LAN
Input Audio Format	Stereo	Stereo
Output Audio Ports	1 x 10GBE (RJ-45 port)	1 x HDMI IN, 1 x Audio IN
Output Audio Format	Stereo	Stereo
Control Method	PC configurator and RS-232	PC configurator and RS-232
Power Supply	12 V 2 A DC	12 V 2 A DC
Power Consumption	6W (Max.)	6W (Max.)
Shipping Dimensions (L X H X D)	10.2" x 3.0" x 7.1"	10.2" x 3.0" x 7.1"
Product Dimensions (L X H X D)	8" x 1.3" x 5"	8" x 1.3" x 5"
Weight	2.5 lbs	2.5 lbs
ESD Protection	Human body model: -±8kV (air-gap discharge) -±4kV (contact discharge)	Human body model: -±8kV (air-gap discharge) -±4kV (contact discharge)

Environmental

OPERATING TEMPERATURE	32° ~ 104°F (0° to 40°C)	32° ~ 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° ~ 140°F (-20° ~ 60°C)	-4° ~ 140°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (no condensation)	20~90% RH (no condensation)



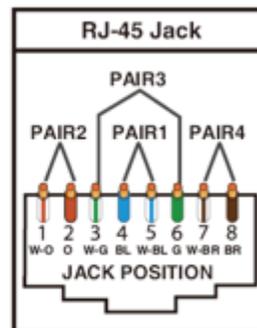
6. TROUBLESHOOTING

Problem	Possible Solution
No Picture on Displays	<ol style="list-style-type: none"><li data-bbox="613 422 1300 453">1. Make sure that all the cables are connected properly.<li data-bbox="613 527 1292 600">2. Make sure that transmitters and receivers are linked properly in PC configurator.<li data-bbox="613 642 1344 758">3. Make sure that display devices support the source resolution. If not, press once P1 button on the receiver's front panel or replace the display devices.<li data-bbox="613 821 1365 894">4. Make sure that display devices support HDCP, if the source video is encrypted.



1. All HDMI over CATx transmission distances are measured using Belden CAT6A (625MHz), 4-Pair,UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented Double-H spline, Ripcord, PVC Jacket using Quantum 980 signal HDMI Video Generator Module with Video Pattern Testing and shielded ends.
2. The transmission length is largely affected by the type of category cables, also the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 300m or 1000ft bulk cable) can transmit a lot longer signals than stranded UTP cables (usually in the form of patch cords). Shielded STP connectors are better suit than unshielded UTP connectors. A solid UTP CAT6A cable shows longer transmission length than solid UTP CAT5E/6E cable.
3. EIA/TIA-568-B termination (T568B) for category cables is recommended.
4. To reduce the interference among the unshielded twisted pairs of wires in category cable, you can use shielded STP cables with shielded connector to improve EMI problems, which occurs in poor wiring environments with unplanned cable runs situated away from EMI interference.
5. Because the quality of the category cables has the major effects in how long transmission distance will be made and how good is the received signal on the display, the actual transmission length is subject to high quality category cables. For resolution greater than 1080i or 1280x1024, a solid CAT6E 250MHz cable is the only viable choice.

Data Link TIA/EIA-568-B		
PIN	Color	Function
1	W-O	TX0-
2	O	TX0+
3	W-G	TX1-
4	BL	TX2-
5	W-BL	TX2+
6	G	TX1+
7	W-BR	TXC-
8	BR	TXC+



PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEGORY CABLE		
WIRING	SHIELDING	CAT5	CAT5E	CAT6
SOLID	u NSHIEI DED (u Tp)	***	****	****
	SHIEI DED (STp)	***	****	*****
STRANDED	u NSHIEI DED (u Tp)	*	**	**
	SHIEI DED (STp)	*	*	**
TERMINATION		PLEASE USE EIA/TIA-568-B TERMINATION (T568B) AT ANY TIME		



Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

LABOR: During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact support@avenview.com.

PARTS: During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact support@avenview.com.

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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